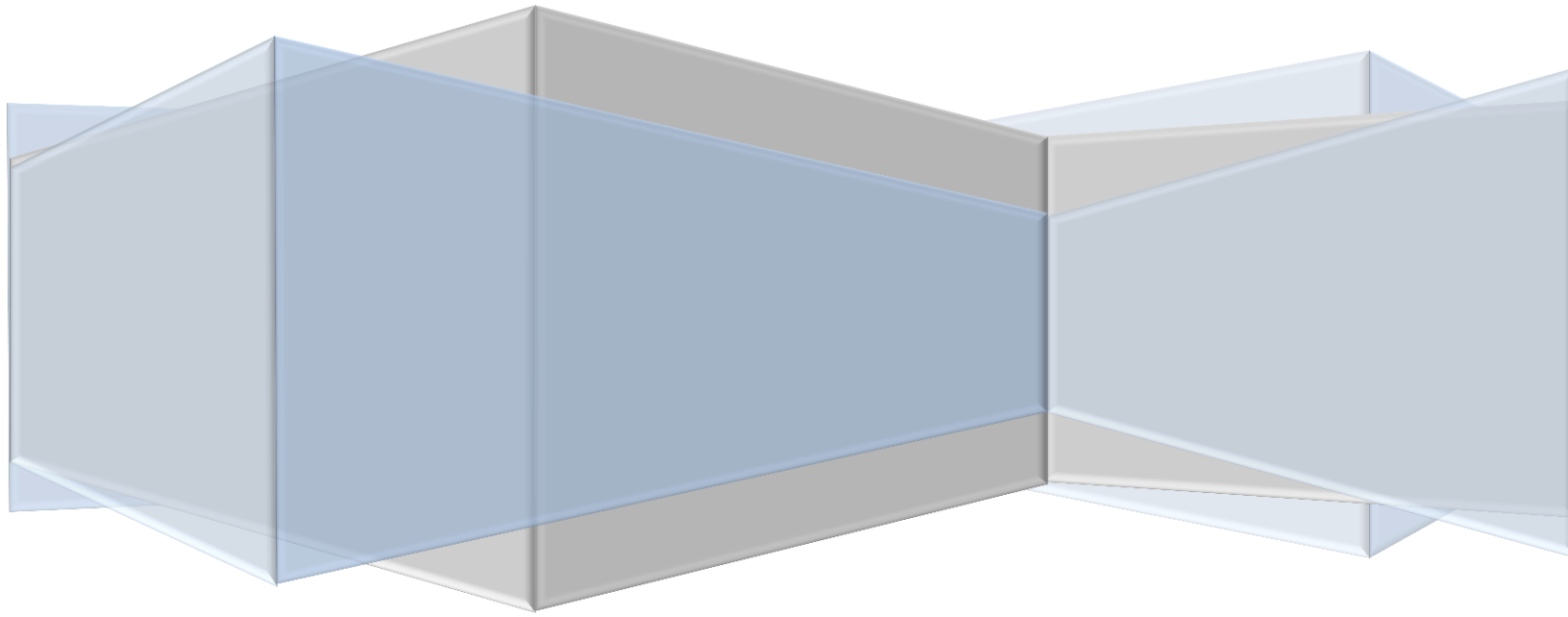
City of Temecula

LOCAL HAZARD MITIGATION PLAN

AUGUST 2012



CONTACT INFORMATION

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PLAN ADOPTION/RESOLUTION

The City of Temecula will submit plans to Riverside County Fire – Office of Emergency Services who will forward to CAL EMA for review prior to being submitted to FEMA. In addition, we will wait to receive an “Approval Pending Adoption” before taking the plan to our local governing bodies for adoption. Upon approval, the City of Temecula will insert the signed resolution.

EXECUTIVE SUMMARY

The purpose of this local hazard mitigation plan is to identify the County's hazards, review and assess past disaster occurrences, estimate the probability of future occurrences and set goals to mitigate potential risks to reduce or eliminate long-term risk to people and property from natural and man-made hazards.

The plan was prepared pursuant to the requirements of the Disaster Mitigation Act of 2000 to achieve eligibility and potentially secure mitigation funding through Federal Emergency Management Agency (FEMA) Flood Mitigation Assistance, Pre-Disaster Mitigation, and Hazard Mitigation Grant Programs.

Riverside County's continual efforts to maintain a disaster-mitigation strategy is on-going. Our goal is to develop and maintain an all-inclusive plan to include all jurisdictions, special districts, businesses and community organizations rather than them writing their own plan to promote consistency, continuity and unification.

The County's planning process followed a methodology presented by FEMA and CAL-EMA which included conducting meetings with the Operational Area Planning Committee (OAPC) coordinated by Riverside County Fire – Office of Emergency Services comprised of participating Federal, State and local jurisdictions agencies, special districts, school districts, non-profit communities, universities, businesses, tribes and general public.

The plan identifies vulnerabilities, provides recommendations for prioritized mitigation actions, evaluates resources and identifies mitigation shortcomings, provides future mitigation planning and maintenance of existing plan.

The plan will be implemented upon FEMA approval.

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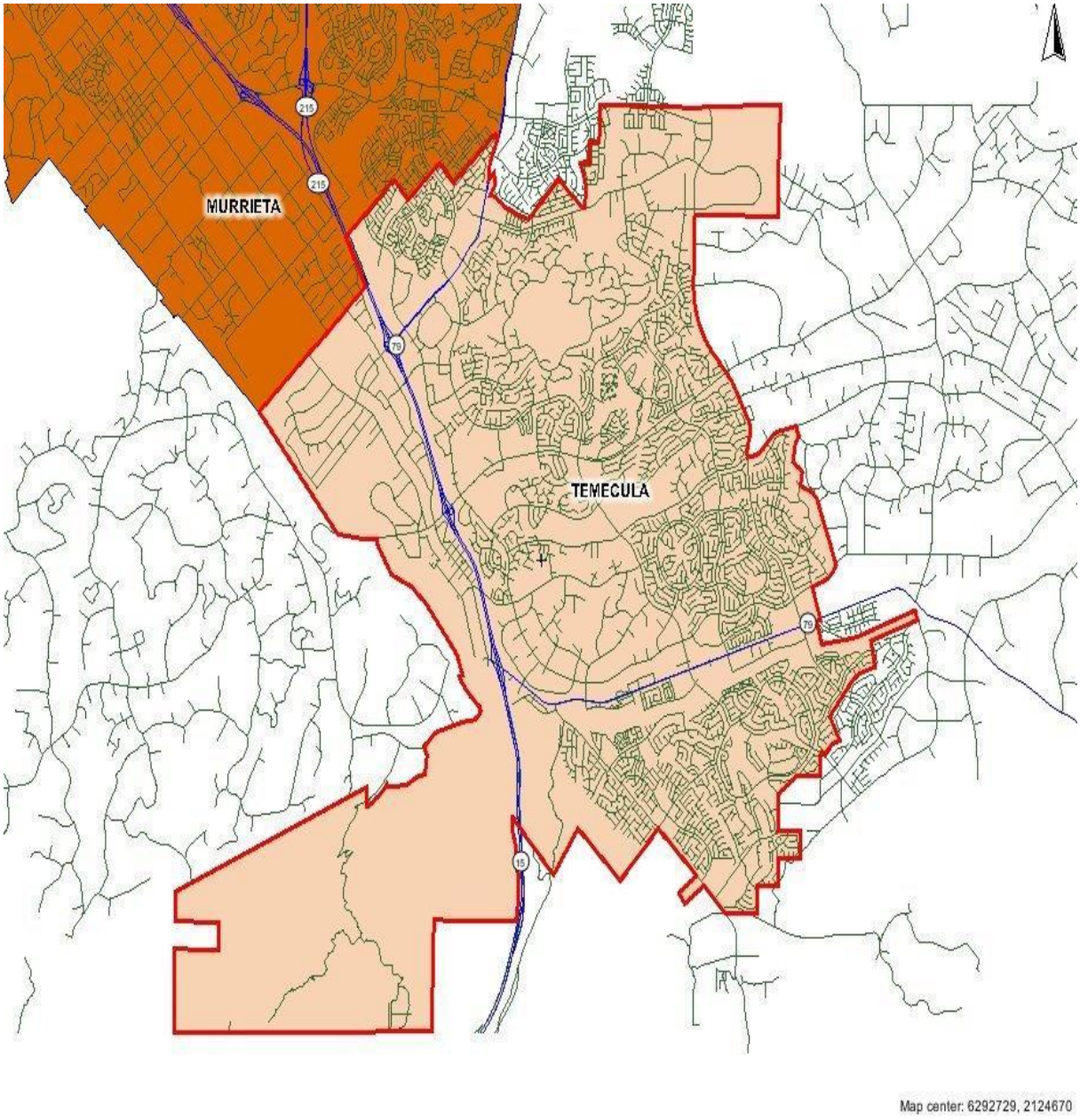
SECTION 1.0 – COMMUNITY PROFILE

1.1 CITY MAP

Figure1-1 City of Temecula Map



1.2 GEOGRAPHY AND CLIMATE DESCRIPTION

The City of Temecula is an incorporated city in Riverside County in the Southwestern portion of the County. It is 30.15 square miles and is 30 miles south of the County seat, the City of Riverside. Temecula sits north of and adjacent to San Diego County to its south. The City's eastern and western boundaries are with Riverside County Jurisdictions and to the north is the City of Murrieta. Interstate Highway 15 travels north and south through the western portion of the City. State Highway 79 travels east from the City on both the southern and northern portions of the city. Murrieta Creek which is a pathway from Lake Skinner Reservoir is on the western portion of the City and Temecula Creek which is a pathway from the Vail Lake Reservoir is on the southern portion of the City. They combine to form the Santa Margarita River in the extreme southwest portion of the jurisdiction. The Santa Margareta Mountains run along the western portion of the jurisdiction.

The City of Temecula's mean yearly temperature is 64 degrees with an average high temperature of 81 degrees and an average low temperature of 47 degrees. The average annual rainfall is 11.4 inches per year

1.3 BRIEF HISTORY

In 1989, Temecula incorporated as a General Law City. The City of today encompasses both Old Town Temecula and a portion of the planned community of Rancho California. Since incorporation, the City has improved upon the good parts of this original blueprint to create a desirable community with exceptional public safety, community services, recreational amenities, and a robust commerce.

1.4 ECONOMY DESCRIPTION

The City's development is a mixed combination of residential, commercial and industrial. It is a moderately densely populated community with 3.24 people per occupied dwelling unit. Here, it ranks in the lower half of the inland region's major cities. Temecula's rapid retail sales growth has given it the fifth highest volume of the 48 Inland Empire cities. Numerous large and highly technical operations have already chosen to locate in the City. They are in sectors like medical instruments, semiconductors, measuring and control devices, communications equipment, specialty machining and programming.

Figure 1-4 City of Temecula Comprehensive Annual Financial Report - Largest Employers

LARGEST EMPLOYERS BY NUMBER OF EMPLOYEES

Current Year and Nine Years Ago

NAME OF EMPLOYER	Number of Employees	Percent of Total Employment	Number of Employees	Percent of Total Employment
	As of June 2002		As of June 2011	
Abbott Laboratories (f/k/a Guidant Corporation)	2,354	5.58%	2,938	4.59%
Temecula Valley Unified School District	2,132	5.05%	2,749	4.29%
Professional Hospital Supply	600	1.42%	1,100	1.72%
International Rectifier	560	1.33%	700	1.09%
Costco Wholesale Corporation	400	0.95%	373	0.58%
Macy's	275	0.65%	300	0.47%
EMD Millipore (f/k/a Chemi-Con International)	195	0.46%	272	0.42%
Norm Reeves Auto Group/DCH	230	0.55%	260	0.41%
Southwest Traders	166	0.39%	233	0.36%
Milgard Manufacturing	325	0.77%	210	0.33%
Plant Equipment, Inc.	200	0.47%	200	0.31%
Temecula Creek Inn	180	0.43%	195	0.30%
Channell Commercial Corporation	350	0.83%	184	0.29%
Albertson's	275	0.65%	180	0.28%
FFF Enterprises Inc.	100	0.24%	178	0.28%
Dayton Hudson Corporation/Target	170	0.40%	174	0.27%
JC Penney Company	209	0.50%	170	0.27%
Toyota of Temecula Valley	130	0.31%	170	0.27%
City of Temecula	236	0.56%	153	0.24%
Lowe's	167	0.40%	152	0.24%
Rancho California Water District	122	0.29%	150	0.23%
Sears	250	0.59%	143	0.22%
Home Depot	150	0.36%	143	0.22%
Opto 22, Inc.	213	0.50%	135	0.21%
The Scotts Company	-	0.00%	120	0.19%
Stater Brothers	170	0.40%	105	0.16%
McMillan Farm Management	150	0.36%	100	0.16%
Rancho Ford Lincoln Mercury	150	0.36%	97	0.15%
TGI Friday's	125	0.30%	85	0.13%
K-Mart Corporation	150	0.36%	80	0.12%
Claim Jumper	150	0.36%	75	0.12%
Pat & Oscars	120	0.28%	55	0.09%
Sierra Pacific Farms, Inc.	250	0.59%	40	0.06%

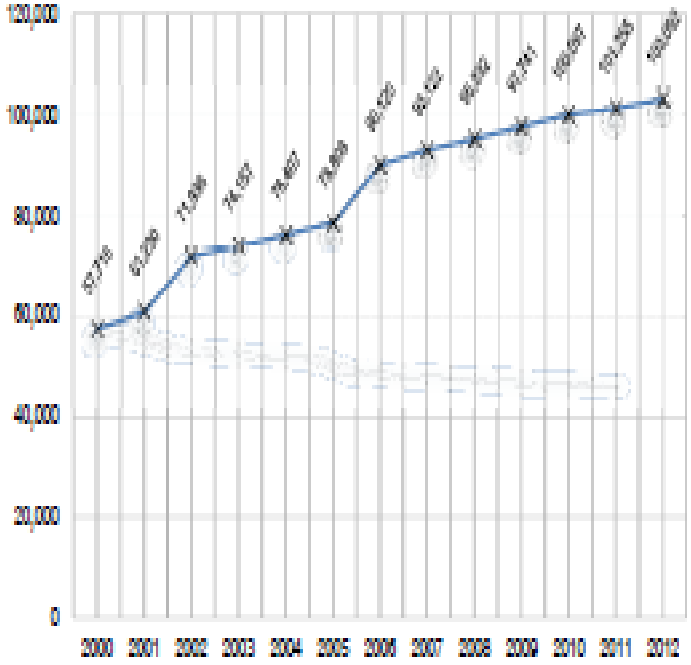
1.5 POPULATION AND HOUSING

Between 2000 and 2012, the total population of the City of Temecula increased by 45,376 to 103,092 in 2012.

Figure 1.5.1 -1.5.2 – SCAG Report - City of Temecula

Population Growth

Population: 2000 - 2012



Sources: California Department of Finance, E-5, 2012

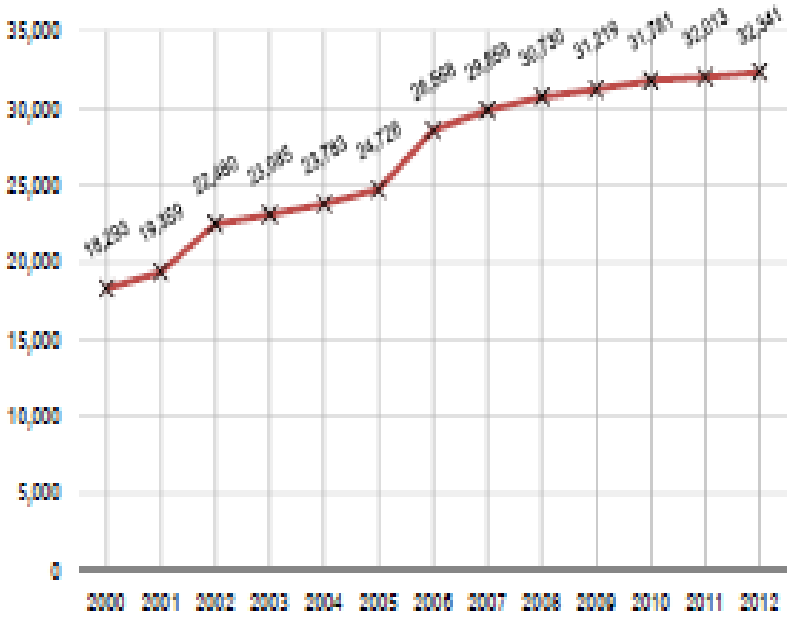
Some population growth in the City of Temecula between 2000 and 2010 was due to annexation of adjacent developed areas.

* The following charts in this report contain data for the City of Temecula unless noted otherwise.

- Between 2000 and 2012, the total population of the City of Temecula increased by 45,376 to 103,092 in 2012.
- During this 12-year period, the city's population growth rate of 78.6 percent was higher than the Riverside County rate of 44.1 percent.
- In Riverside County 4.6% of the total population is in the City of Temecula.

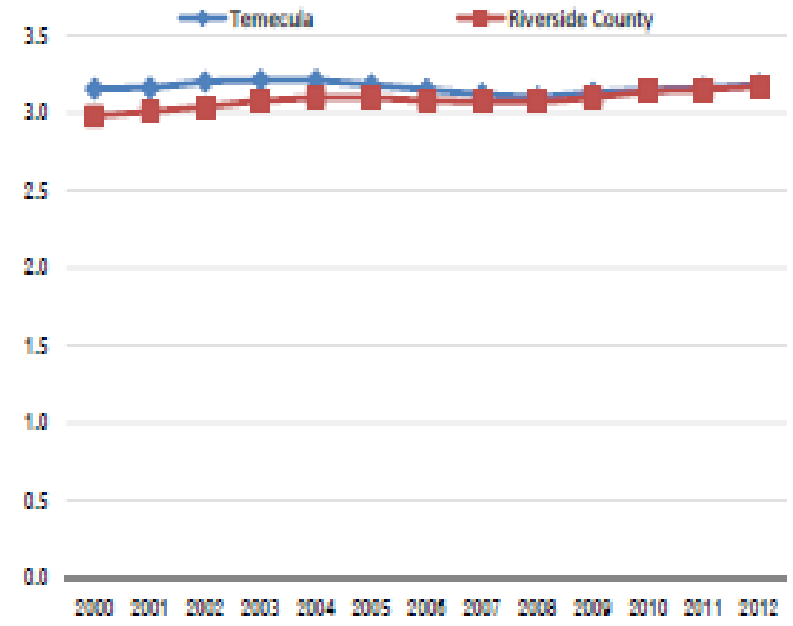
Number of Households (Occupied Housing Units)

Number of Households: 2000 - 2012



Sources: 2000 and 2010 U.S. Decennial Census; California Department of Finance, E-5, 2012

Average Household Size: 2000 - 2012



Source: California Department of Finance, E-5, 2012

- Between 2000 and 2012, the total number of households in the City of Temecula increased by 14,048 units, or 76.8 percent.
- During this 12-year period, the city's household growth rate of 76.8 percent was higher than the county growth rate of 36.8 percent.
- 4.7 percent of Riverside County's total number of households is in the City of Temecula.
- In 2012, the city's average household size was 3.2, the same as the county average of 3.2.

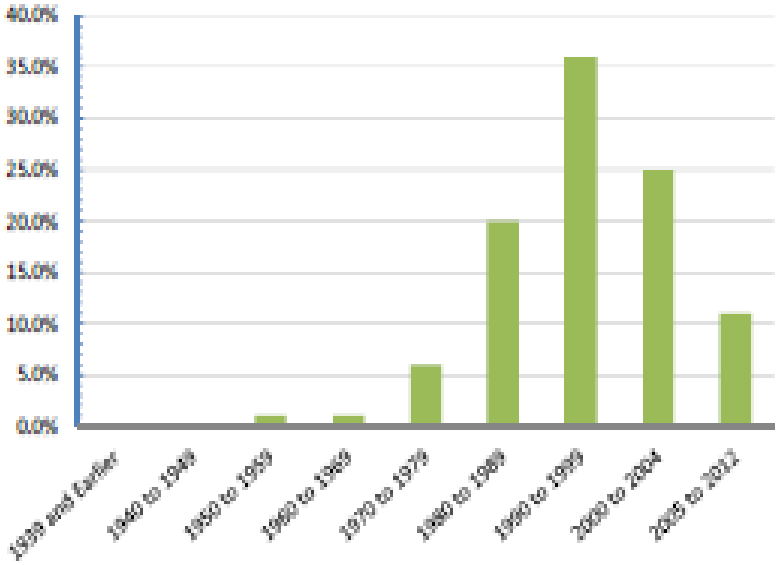
Housing Units by Housing Type: 2012

Housing Type	Number of Units	Percent of Total Units
Single Family Detached	27,610	79.8 %
Single Family Attached	1,057	3.1 %
Multi-family 2 to 4 units	757	2.2 %
Multi-family 5 units plus	5,019	14.5 %
Mobile Home	160	0.46 %
Total	34,603	100 %

Source: California Department of Finance, E-5, 2012

- The most common housing type is Single Family Detached.
- Approximately 82.8 percent were single family homes and 16.7 percent were multi-family homes.

Age of Housing Stock



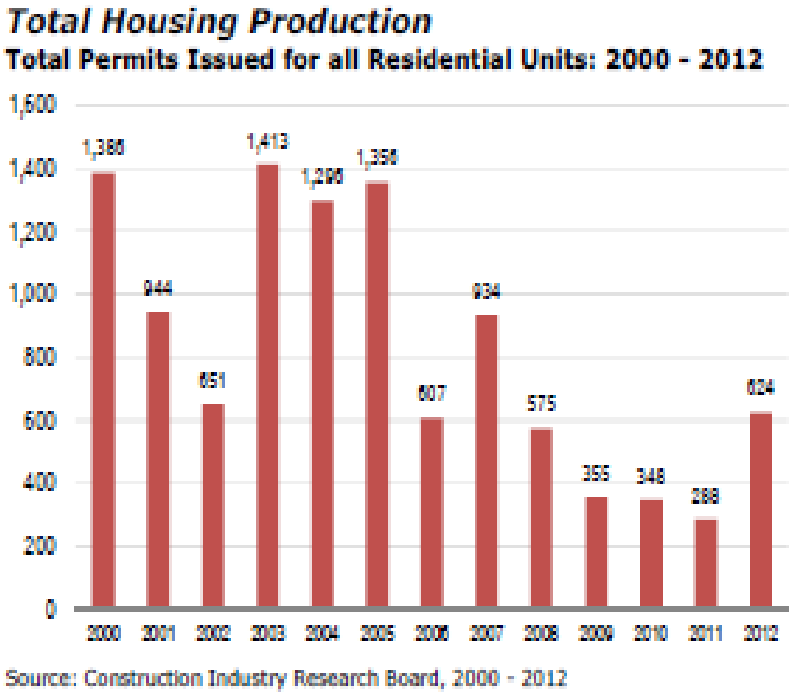
Source: Nielsen, Co., 2012

- 2 percent of the housing stock was built before 1970.
- 98 percent of the housing stock was built between 1970 to 2012.
- The age of housing stock data partly reflects the local development history.

1.6 LAND USE AND DEVELOPMENT TRENDS

The residential growth of the City of Temecula will be to the north and to the east into open City owned land and into unincorporated County land that many be acquired by the City. Light to medium commercial growth will follow the residential growth. The heavy commercial and industrial growth will continue to develop along western portion of the city, along the base of the hills, and will also continue along the Interstate 15 and State HWY 79 corridors.

Figure 1.6.1- City of Temecula Housing Production



- Between 2000 and 2012, permits were issued for 10,777 new residential units.

1.7 SUMMARY

There was a change in the City of Temecula's 2005-2012 LHMP jurisdictional development trends projected growth patterns. The City has continued with a strong residential, commercial and industrial growth, although the projected growth was not met. The unforeseen turn in the economy has slowed growth, but none the less growth has still continued. With the future economic growth projected by the federal government, the City of Temecula should meet our 2017 jurisdictional development trends. There are plans for continued improvement of existing roads, bridges and structures. There is also the possible addition of a Hospital into the Jurisdiction.

SECTION 2.0 - PLANNING PROCESS

2.1 LOCAL PLANNING PROCESS

The City of Temecula participated in various Riverside County workshops, conferences and meetings, including:

- LHMP Orientation meeting - June 30, 2011 Temecula CA
- Workshop - August 22, 2011 Ben Clark Training Center
- City Workshop - September 13, 2011 City of Temecula
- CERT monthly meetings
- Southwest Zone meetings on the following dates:
  - July 19, 2011
  - August 16, 2011
  - September 20, 2011
  - October 18, 2011
- Quarterly Operational Area Planning Committee meetings which is open to the public and stakeholders in the County of Riverside.

2.2 DATES AVAILABLE FOR PUBLIC COMMENT

These meeting are held throughout the year, dependent on the availability of staff and need to discuss new information. A formal presentation of the local hazard's and plans to mitigate them were presented to the Traffic Safety Council on 8-9-2011.

2.3 PLAN ADOPTED BY RESOLUTION

The City Council may adopt the plan in a public meeting via an official Resolution upon approval by FEMA. The mitigation strategies may become an implementation appendix of the Safety Element of the City of Temecula General Plan.

SECTION 3.0 – UPDATES AND MITIGATION ACTIONS

3.1 UPDATES FROM 2005 PLAN

There are not any changes or additional hazards from the 2005 plan. The priorities remain the same from prior plan which is earthquake, fire and flood.

3.2 NEW HAZARDS OR CHANGES FROM 2005 PLAN

The City of Temecula has had two declared disasters in the last 5 year period.

- The City of Temecula was part of the southwest County flood emergency in 2010.
- Pandemic- the possibility of Avian Flu.
- The City of Temecula supplied emergency shelter to San Diego County fire victims in 2007 fire. No financial damage.

3.3 MITIGATION PLANNING PROCESS

Representatives from the City of Temecula met on a regular basis to identify and prioritize appropriate mitigation strategies. Personnel involved in these meetings included City Manager, Deputy City Manager, Senior Management Analyst, Fire Chief, Police Chief, Planning, Building Department, and OES Representatives. The group was made up of city managers, planners, building department officials, facility managers, civil engineers, public health specialists, emergency managers, and sheriff and fire officials.

3.4 BRIEF STATEMENT OF UNIQUE HAZARDS

The hazards in Temecula include the same as much of Riverside County, including earthquake, flooding and fires. Additionally, Temecula has more transportation related hazards and incidents because of the highways (Interstate Highway 15 and Highway 79 within the city sphere) and a train depot in the middle of the city.

3.5 MITIGATION PROJECT UPDATES

Figure 3.5.1 City of Temecula Capital Improvement Projects Fund

Project Name	Annual Amended Budget	Year-to-Date Activity	Encumbrances	Total Activity	% of Budget
Road and Storm Drain Repair at Rancho California	$95411	$57,288	-	$57,288	60%
Citywide Storm Drain Improvements	$406,268	$190,285	1,292	$191,577	47%
Pechanga Parkway Mitigation	$621,711	$29,763	701	$30,464	5%
Structural Seismic Retrofit Buildings	$130,000	-	-	-	0%
Flashing Beacons	$22,401	$13,958	1,315	$15,273	68%
Murrieta Creek Improvements	$50,000	-	-	-	0%

SECTION 4.0 – HAZARD IDENTIFICATION AND RISK ASSESSMENT

4.1 CRITICAL FACILITIES AND INFRASTRUCTURE

Critical Facilities Type	Number
Airports	-
Communications Centers	1
Detention Centers	-
Emergency Command Centers	1
Emergency Operations Centers	1
Fire Departments	4
Health Care Facilities	
Law Enforcement Facilities	2
Maintenance Yards	1
Residential Elderly Facilities	1
Schools and Day Care Facilities	29
Public Utilities—Water/Sewer	-
Totals	36

4.2 ESTIMATING POTENTIAL LOSSES

The hazards experienced by the City of Temecula were flood and fire. The volume of rain experienced during the early winter months of 2010 placed a stress on city resources, but through Mutual/Automatic aid agreements the City experienced minimal effect. A fire in a neighboring jurisdiction did not directly pose a hazard to the city, but emergency declaration helped house evacuation victims within the city. The threat of earthquake, hazardous materials, dam failure and nuclear incident are still high factors for the city.

Please refer to Riverside County Operational Area MJHMP Section 4.5 for the property loss value for the City of Temecula.

4.3 ASSET TABLE/REPLACEMENT VALUE

NAME OF ASSET	REPLACEMENT VALUE	CAPACITY	INFORMAYION
Civic Center	34,926,892	Unknown	
(Old) City Hall	9,000,000	Unknown	Sprinklered J/Masonry
Ronald Regan Sports Park; Community Recreation Center Offices (CRC); Meeting Rooms	1,200,000	Unknown	Sprinklered Concrete Block
RRSP Gym	3,400,000	Unknown	Sprinklered Concrete Block
RRSP Auditorium, Classrooms, Kitchen	2,500,000	Unknown	Sprinklered Concrete Block
RRSP Pool / Pool Bldg./Slide	250,000	Unknown	Concrete Block
Temecula Community Center	1,100,000	Unknown	Fr/Stucco
Mary Phillips Senior Center	2,000,000	Unknown	Sprinklered J/Masonry
Museum	1,800,000	Unknown	Sprinklered Frame
Wedding Chapel (Chapel of Memories)	250,000	Unknown	Sprinklered Frame
Children's Museum Gift Shop Single Occupant	2,250,000	Unknown	Sprinklered Frame
Old Town Temecula Community Theater	9,000,000	Unknown	Sprinklered, Steel, Wood
Mercantile Building	1,500,000	Unknown	Frame & Brick
West Wing Maintenance Facility / Office	3,300,000	Unknown	Sprinklered Masonry

NAME OF ASSET	REPLACEMENT VALUE	CAPACITY	INFORMAYION
Field Operation Center	6,800,000	Unknown	Sprinklered Steel Frame Composite Membrane and Metal Root
Temecula Public Library	10,000,000	Unknown	Sprinklered Steel
Parking Structure/Office-Retail (RE: EDP Hardware Location Locked with card access & security camera)	16,700,000	Unknown	Reinforced & pre-stressed casted in place concrete/structural steel frame
TCC SAFE House	1,242,053	Unknown	Sprinklered frame with metal roof
Fire Station #84	3,000,000	Unknown	Sprinklered Masonry
Fire Station #12	Insured by CAL FIRE	Unknown	Underground Storage Tank
Fire Station #73	1,800,000	Unknown	Type V Wood Frame Stucco
Fire Station #92	2,718,600	Unknown	Sprinklered Steel Stucco & Rock
Fire Station to be occupied upon dispute settlement	2,709,000	Unknown	Sprinklered Concrete
Temecula Citizens Corp & Paramedics	60,000	Unknown	Wood Frame Wood Siding
TVUSD 34 Schools		Unknown	Secured Campuses
Elementary 25	N/A	Unknown	
Middle 6	N/A	Unknown	
High 3	N/A	Unknown	
Linfield Christian School	N/A	Unknown	Secured Campuses

4.4 HAZARD REVIEW AND SUMMARY

The Planning Committee has reviewed the hazards from 2005 plan and have determined there are no new hazards and the impact to the jurisdiction remains the same as the 2005 plan.

2005 - LHMP PAGE NUMBER FOR EACH HAZARD

Earthquakes	40
Flooding	54
Wildfire	68
Extreme Weather	116
Landslides	140
Insect Infestation	149
Dam failure	153
Hazardous materials (hazmat) incidents	161
Transportation emergencies	168
Pipeline/Aqueduct incidents	176
Blackout	179
Toxic pollution	182
Nuclear incidents	189
Civil unrest	192
Jails and prisons incidents	194
Terrorism	197

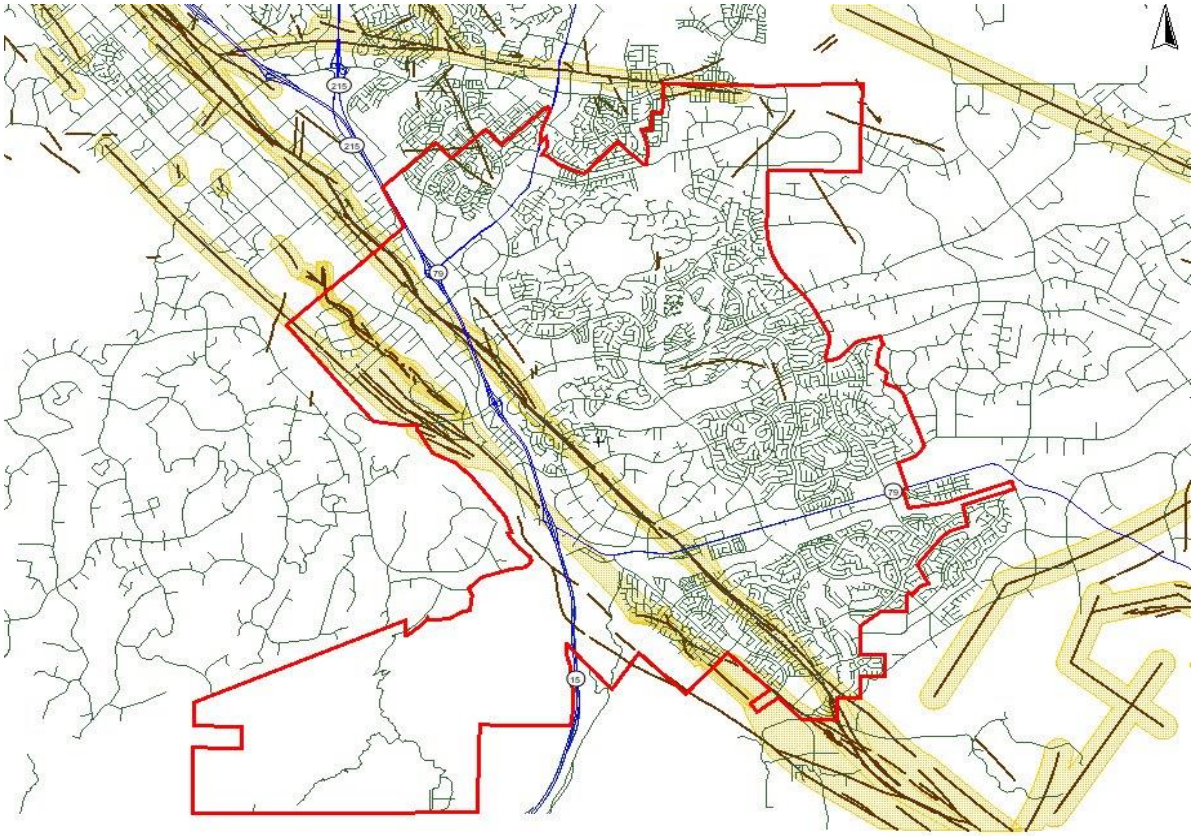
4.5 IDENTIFICATION OF RISKS AND VULNERABILITIES

1. Drought - Severity – 3, Probability - 2, Ranking - 11

(See Riverside County OA MJHMP Section 5.3.5 Pages 227-230)

2. Earthquake Severity – 4, Probability - 3, Ranking - 2

Jurisdiction is located in Seismic Hazard Zone. The nearest active earthquake faults are located (Listed Below). Jurisdiction has experienced several noticeable ground movement incidents (List Below), but no local damage was sustained.



Elsinore Fault Zone

The fault zone is in the Interstate 15 corridor on the western portion the city running parallel with the Interstate in a north and south direction.

Other Fault Zones in Area

San Andreas Fault: This fault zone is located approximately 55 miles northeast of the City of Temecula and is a dominant active fault in California.

San Jacinto Fault: This fault zone is located approximately 35 miles northeast of the City of Temecula and is a dominant active fault in California.

Historical Earthquake Data (Within 100 Miles)

All dates, distances, and magnitude in the table below are measured in miles.

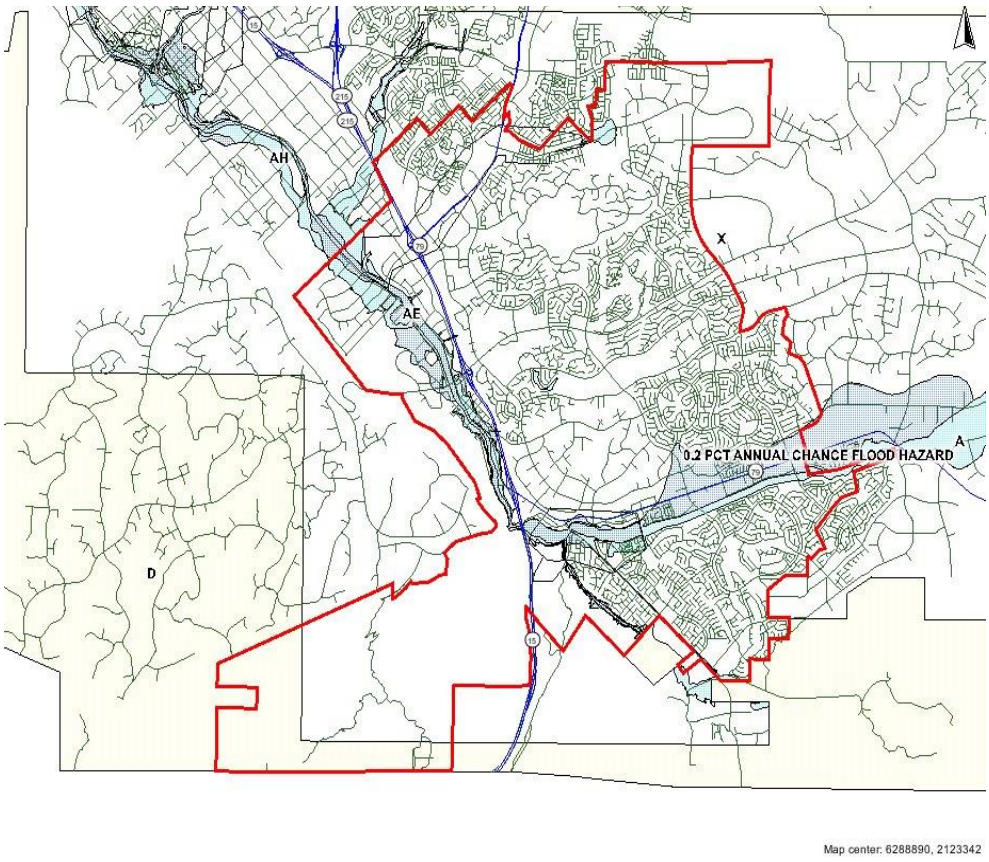
Date from 5 year period and magnitude of > then 4.5

Date	Distance from Temecula	Magnitude
06/15/2010	89.79	5.8
07/29/2008	47.22	5.5
07/07/2010	38.29	5.5
06/12/2005	33.41	5.2
04/05/2010	96.55	4.9
06/16/2005	39.93	4.9
03/24/2009	82.68	4.8
05/08/2010	96.13	4.8
09/02/2007	24.68	4.8
08/31/2005	91.58	4.8
10/16/2005	92.40	4.8
05/18/2009	75.11	4.7
04/05/2010	97.85	4.7
05/19/2010	96.04	4.6
04/22/2010	96.13	4.6

(See Riverside County OA MJHMP Section 5.3.3 Pages 196-218)

3. Flood – Severity - 4, Probability - 3, Ranking - 3

The City of Temecula has had a long history with heavy rains. It is not the drainage from the city itself that has had flooding in the past; the city's intrigued drainage system has been more than adequate for the seasonal rains. The possibility of flood for the is the City of Temecula stems from its location between two major drainages, Murrieta Creek to the north and west of the city and Temecula Creek on the south. Both come together to form the Santa Margareta River in the southwest corner of the city. The last major flood experienced from these two Creeks was in 1993. The city has taken steps to control flooding through vegetation reduction, creek maintenance, and bridge upkeep. With the continued practice, flooding within the city should be prevented. The City of Temecula participates in the National Flood Insurance Program (NFIP). The City joined the program in 1989 and is in good standing.



(See Riverside County OA MJHMP Section 5.3.2 Pages 164-195)

4. Severe Weather: Extreme Heat – Severity - 2, Probability - 3, Ranking - 8

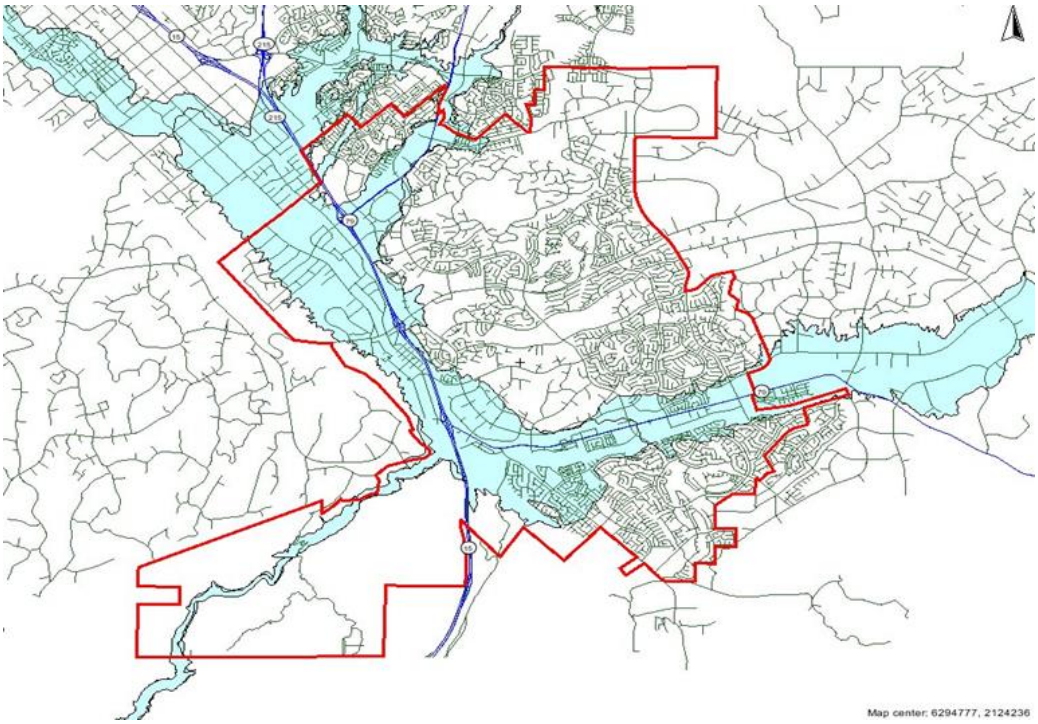
(See Riverside County OA MJHMP Section 5.3.4 Pages 219-226 and Section 5.3.8 Pages 239-249)

5. Agricultural Hazards – Severity – N/A, Probability – N/A, Ranking – 18

Any time an agricultural hazard-related event impacts the jurisdiction it will reduce crop or product production. The jurisdiction is negatively impacted by loss of revenue to major businesses specifically the wineries, who are a major tourist staple and generate revenue to the City. (See Riverside County OA MJHMP Section 5.5 Pages 295-303)

6. Dam Failure – Severity - , Probability - , Ranking -

The city of Temecula is located down elevation of two water reservoirs. The largest is the Lake Skinner Reservoir. It is located approximately 10 miles (15 km) northeast of Temecula. It was created in 1973 by the construction of the Skinner Clearwell Dam (expanded 1991), and currently has a capacity of 44,200 acre feet (54,500,000 m^3). There is a low likelihood of the water inundating the City of Temecula. Vail Lake is the second large reservoir located near the City of Temecula. It is located on Temecula Creek in the Santa Margarita River watershed, approximately 15 miles (24 km) east of Temecula. It covers approximately 1,100 acres (4.5 km^2) and has a storage capacity of 51,000 acre feet (63,000,000 m^3), although it currently contains about 34,000 acre feet (42,000,000 m^3) of water. There is a low likelihood of the water inundating the City of Temecula. Diamond Valley Lake is a man-made off stream reservoir located approximately 20 miles northeast of Temecula. It is one of the largest reservoirs in Southern California and also one of the newest, with 800,000 acre feet (990,000,000 m3) of water.



(See Riverside County OA MJHMP Section 5.4.1 Pages 261-270)

7. Technological Hazards (Transportation Hazards/Hazardous Materials Release) Severity - 3, Probability - 3, Ranking - 6

There is the potential for death and injury from large-scale motor vehicle accidents. There is the potential for hazards material spills or fires as numerous commercial transportation vehicles travel Interstate15 through the city limits with various quantities and types of hazardous materials.

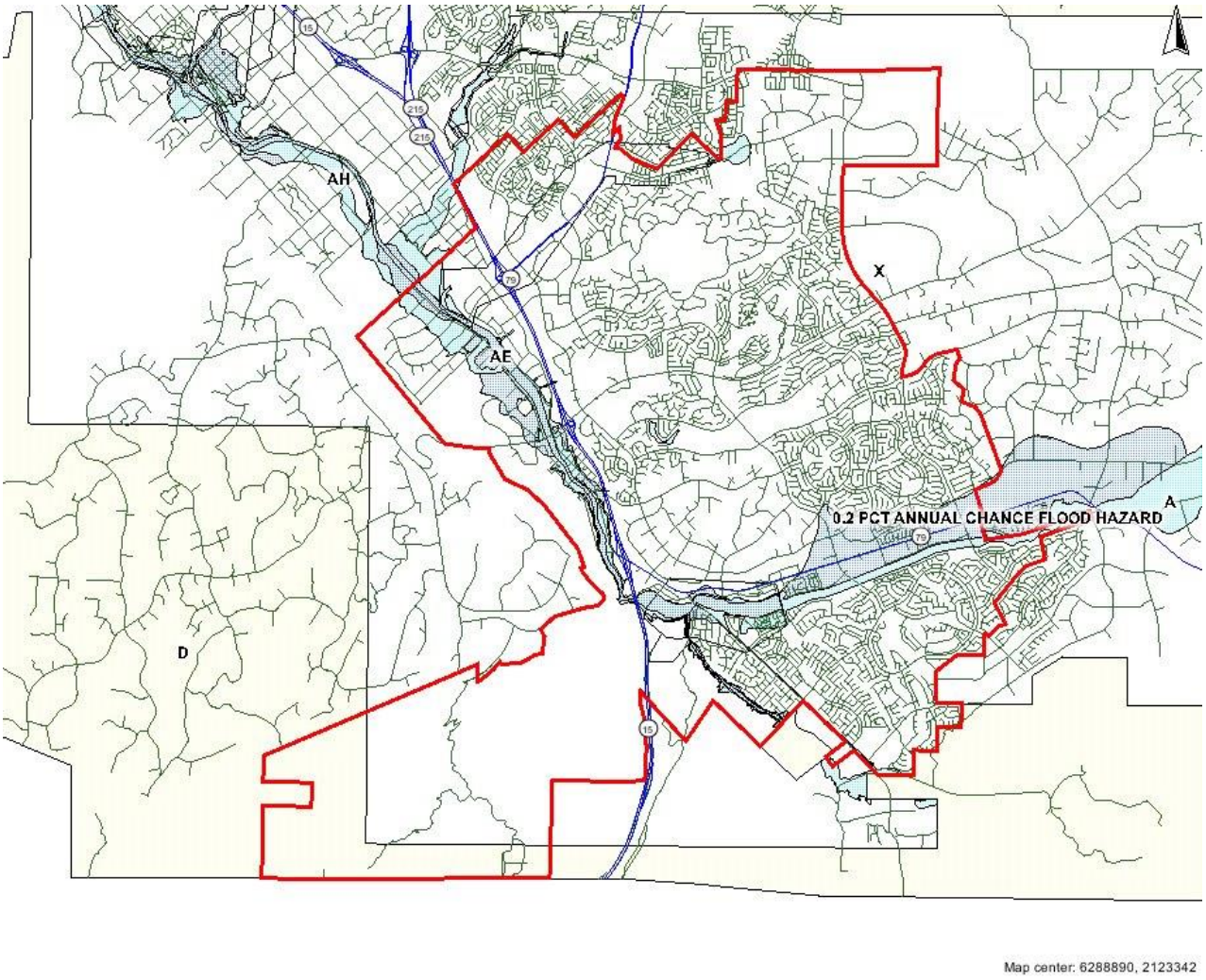
There is also the potential for death and injury from large-scale industrial accidents with the City of Temecula. There are numerous large industrial facilities storing a wide variety of hazardous chemicals in large quantities. Many of the facilities store enough material to require their own hazardous materials teams on site. The City of Temecula has large volume gas pipe lines through its jurisdiction increasing the chance of a hazardous materials incident. (See Riverside County OA MJHMP Section 5.4 Pages 271-294)

Make sure your planning group reviews the years 2005 to 2011 for disasters that occurred that are not in the 2005 LHMP.

SECTION 5.0 – COMMUNITY RATING SYSTEM

5.1 REPETITIVE LOSS PROPERTIES

There is no repetitive loss of properties in the City of Temecula flood plain based on the city information, flood plain map below.



5.2 NATIONAL FLOOD INSURANCE PROPERTIES

City of Temecula has participated in the National Flood Insurance Program since 1989.

a. **Describe participation in NFIP, including any changes since previously approved plan**.
   There have been no changes since previously approved plan
b. **Date first joined NFIP?**
   1989
c. **Identify actions related to continued compliance with NFIP.**
   Competed necessary actions related to continued compliance with NFIP
d. **CRS member?** No
e. **CRS class?** No
f. **Describe any data used to regulate flood hazard area other than FEMA maps.** N/A
g. **Have there been issues with community participation in the program?** No
h. **What are the general hurdles for effective implementation of the NFIP?** None
i. **Summarize actions related to continued compliance with NFIP**
   - Continue to educate public through community outreach.
   - Control flooding through vegetation reduction, creek maintenance, and bridge upkeep.

   ii. **Repetitive Loss Properties –** None since approval of 2005 plan.

SECTION 6.0 – CAPABILITIES ASSESSMENT

6.1 REGULATORY MITIGATION CAPABILITIES TABLE

Table 6-1 - City of Temecula's Regulatory Mitigation Capabilities

Regulatory Tool	Yes/No	Comments
General plan	Yes	Comprehensive General Plan
Zoning ordinance	Yes	Riverside County/City of Temecula Code
Subdivision ordinance	Yes	
Site plan review requirements	Yes	Riverside County/City of Temecula Code
Growth management ordinance	Yes	
Floodplain ordinance	Yes	
Other special purpose ordinance	No	
Building code	Yes	Riverside County/City of Temecula Code
Fire department ISO rating	Yes	
Erosion or sediment control program	No	
Storm water management program	Yes	City of Temecula Master Plan
Capital improvements plan	Yes	Reviewed Annually
Economic development plan	Yes	Reviewed Annually
Local emergency operations plan	Yes	Reviewed Annually
Other special plans	Yes	
Flood Insurance Study or other engineering study for streams	No	

6.2 ADMINISTRATIVE/TECHNICAL MITIGATION CAPABILITIES

Table 6-2 - City of Temecula's Administrative and Technical Mitigation Capabilities

Personnel Resources	Yes/N	Department/Position
Planner/engineer with knowledge of land development/land management practices	Yes	
Engineer/professional trained in construction practices related to buildings and/or infrastructure	Yes	
Planner/engineer/scientist with an understanding of natural hazards	Yes	
Personnel skilled in GIS	Yes	
Full time building official	Yes	
Floodplain manager	No	
Emergency manager	Yes	
Grant writer	Yes	
Other personnel	Yes	
GIS Data—Land use	Yes	
GIS Data—Links to Assessor's data	Yes	
Warning systems/services (Reverse 9-11, outdoor warning signals)	Yes	
Other		

6.3 FISCAL MITIGATION CAPABILITIES TABLE

Financial Resources	Accessible/Eligible to Use (Yes/No)	Comments
Community Development Block Grants	Yes	
Capital improvements project funding	Yes	
Authority to levy taxes for specific purposes	Yes	With voter approval
Fees for water, sewer, gas, or electric services	No	
Impact fees for new development	Yes	
Incur debt through general obligation bonds	Yes	With voter approval
Incur debt through special tax bonds	Yes	With voter approval
Incur debt through private activities	No	
Withhold spending in hazard prone areas	n/a	
Other	n/a	

6.4 FUNDING OPPORTUNITIES

Please refer to Section 7.4 and Table 6.4 of the Riverside County Multi-Jurisdictional Hazard Mitigation on pages 327-336 plan for list of funding sources available.

6.5 MITIGATION OUTREACH AND PARTNERSHIPS

The City of Temecula has partnerships with county and state agencies. The city has agreements with the Riverside County Office of Emergency Services, Cal Fire, County Sheriff, Road, Flood and others. These agreements allow the ability to utilize county and state resources with trained personnel. There are multiple outreach programs incorporated within the city, city web site, school programs, Fire and Police reserves, TCC, CERT, business educating employees, safety fairs by local business, and special community events.

6.6 OTHER MITIGATION EFFORTS

The city is working on the support of the infrastructure, to supply shelter, food and water for emergencies. The city is working on securing the ability to support communications and emergency operations during times of disasters. To continue the working with county, state and federal agency's to ensure all regulations are followed as to building and growth of the city.

SECTION 7.0 – MITIGATION STRATEGIES

7.1 GOALS AND OBJECTIVES

Goal 1: Provide Protection for People's Lives from All Hazards

Objective 1.1: Provide timely notification and direction to the public of imminent and potential hazards.

Objective 1.2: Protect public health and safety by preparing for, responding to, and recovering from the effects of natural or technological disasters.

Objective 1.3: Improve community transportation corridors to allow for better evacuation routes for public and better access for emergency responders.

Goal 2: Improve Community and Agency Awareness about Hazards and Associated Vulnerabilities That Threaten Our Communities

Objective: 2.1: Increase public awareness about the nature and extent of hazards they are exposed to, where they occur, what is vulnerable, and recommended responses to identified hazards (i.e. both preparedness and response).

Goal 3: Improve the Community's Capability to Mitigate Hazards and Reduce Exposure to Hazard Related Losses

Objective 3.1: Reduce damage to property from an earthquake event.

3.1.1: Adopt/maintain building codes to meet required earthquake standards.

Objective 3.2: Reduce flood and storm related losses.

3.2.1: Provide for better collection of data related to severe weather events.
3.2.2: Continued maintenance of drainage corridors
3.2.3: Continued work with county flood control

Objective 3.3: Minimize the impact to the City due Traffic corridors being restricted.

Objective 3.4: Improve the city's ability to be self-supportive in times of disasters

3.4:1: Shelter of disaster victims
3.4:2: Food and Water for disaster victims
3.4:3: Ensure emergency response through city resources

Goal 4: Provide Protection for Critical Facilities, Utilities, and Services from Hazard Impacts

Objective 4:1 Continue implication of state and county building codes

Goal 5: Maintain Coordination of Disaster Planning

Objective 5.1: Coordinate with changing DHS/FEMA needs.

5.1.1: National Incident Management System (NIMS)
5.1.2: Disaster Mitigation Act (DMA) planning
5.1.3: Emergency Operations plans

Objective 5.2: Coordinate with community plans.
5.2.1: General plans
5.2.2: Earthquake plans
5.2.3: Drainage plans
5.2.4: Intergovernmental agency disaster planning.

Objective 5.3: Maximize the use of shared resources between jurisdictions and special districts for mitigation/communication.
5.3.1: Maintain and develop Mutual/Automatic Aid agreements with adjacent jurisdictions and agencies.

Objective 5.4: Standardize systems among agencies to provide for better interoperability.
5.4.1: Standardize communication technology and language.

Goal 6: Maintain/Provide for FEMA Eligibility and Work to Position City Departments and Community Partners for Grant Funding

7.2 MITIGATION ACTIONS

The 2005 proposed mitigation action and strategy was the Diamond Valley Reservoir inundation plan. The plan was to have descriptions of flood impact for City of Temecula, planning sessions, table tops and develop response plan. Planning sessions and table top exercises are an ongoing for all hazards which include the reservoir impact and current city flood response plains are in place for all flooding scenarios including the Diamond Valley Reservoir. The description for the flood impact is still pending.

7.3 ON-GOING MITIGATION STRATEGY PROGRAMS

Please see Riverside County Multi-Jurisdictional Hazard Mitigation on pages 342-344.

7.4 FUTURE MITIGATION ACTIONS AND PRIORITIES

Emergency Sheltering

The City of Temecula has helped with sheltering people in the past (San Diego Fire 2005) and believes this community and others would benefit from increased awareness, training and equipment regarding the sheltering of others. The sheltering of fire victims had shown this city how difficult providing shelter can be, even in times when there is no local disaster.

The City itself would be the leader in such a project assuring locations and agreements for food and water, with the TCC and CERT programs providing the actual training and logistics regarding equipment. The funding will come from federal, county and state, grants and awards.

This is a project that has a continuous time line, as the growth of Temecula, neighboring cities, and county's expand the scope of the project expands. The initial setup has begun and over the next five years the City of Temecula should have the basic equipment, training, agreements and logistics in place.

Continued Expansion of CERT

The continued expansion of CERT is necessary to help in hazard mitigation. CERT is managed through the city in operation with the Fire Department. The program is funded by both the City of Temecula and federal grants. The CERT members act as a volunteer work force trained in basic First Aid, Rescue, Communications, Hazardous Material Awareness, sheltering of others, and the largest component is for emergency preparedness. This extra work force allows essential police, fire and government officials the ability to focus on immediate needs and the volunteers act as a support function. Again this project has a continuous time line in relation to the growth of the city.

We work with the local and state water agency's regarding the reservoirs up stream of the city's jurisdiction, to ensure the city's ability to understand the risks of reservoir failure and the amount of water volume and damage that can be expected.

The assessment of roads and bridges within the city's jurisdiction, this main focus would be on the major arteries traveling into and out of the city's jurisdiction. This requires working with Cal Trans and California Highway Patrol.

7.5 MITIGATION STRATEGIES

Our City coordinated with multiple cities and agencies throughout Riverside County in the creation and update of our LHMP Annex. The cooperation and discussions both in regional meetings, community outreach and in internal meetings allowed for both “big picture” and “local jurisdiction” views of mitigation needs and possibilities.

The Part Two, Agency Inventory Worksheet process enabled our City to recognize hazards and their severity and also assisted in determining what mitigation actions are appropriate to lessen or prevent the hazard on a long-term basis.

SECTION 8.0 – PLAN IMPLEMENTATION AND MAINTENANCE PROCESS

Plan Maintenance Process

Our City will monitor and evaluate our LHMP on a 2 year basis. Over the next 5 years, we will review the LHMP. We will assess, among other things, whether the following:

- The goals and objectives address current and expected conditions.
- The nature, magnitude, and/or type of risks have changed.
- The current resources are appropriate for implementing the plan.
- There are implementation problems, such as technical, political, legal, or coordination issues with other agencies.
- The outcomes have occurred as expected (a demonstration of progress).
- The agencies and other partners participated as originally proposed.

If we discover changes have occurred during the evaluation, we will update the LHMP Revision Page, and notify OES to update our Annex.

Our executive staff and emergency services department will be in charge of the monitoring, evaluation and updating of our LHMP.

SECTION 9.0 –INCORPORATION INTO EXISTING PLANNING MECHANISMS

The County has a Safety Element in its General Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. This plan was adopted as an implementation appendix to the Safety Element. In addition, the County enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The County has used these pre-existing programs as a basis for identifying gaps that may lead to disaster vulnerabilities in order to work on ways to address these risks through mitigation.

The City has several planning mechanisms which incorporate the following:

- General plan safety element
- Capital Improvements Plan
- City Community Action Plan
- City Strategic Vision
- Title 8 – Health and Safety Municipal Codes
    1. Chapter 8.16 Hazardous Vegetation
    2. Chapter 8.28 Stormwater and Urban Runoff Management
    3. Chapter 8.40 Fireworks
    4. Chapter 8.48 Heritage Tree Ordinance
- Title 15 – Building and Construction
    1. Chapter 15.04 Construction Codes
    2. Chapter 15.12 Floodplain Management
    3. Chapter 15.16 Fire Code
- Title 17 – Zoning
    1. 17.20 Floodplain Overlay District and Flood Damage Prevention (Floodplain Management Regulations)
- Ordinance 91-18 Ch. 6.16 and § 6.14.002 abatement of hazardous vegetation
- Ordinance 93-23 Clearing of brush for fire protection purposes (8.16)

SECTION 10.0 – CONTINUED PUBLIC INVOLVEMENT (ELEMENT)

After we go through the Scheduled Plan Maintenance Process, we will notify the public of any changes/no change in the LHMP Plan by updating the city's web site, community meeting, safety presentations and city meetings.

APPENDIX A – INVENTORY WORKSHEETS

SEE ATTACHMENT

Appendix A

RIVERSIDE COUNTY MULTI-JURISDICTIONAL LOCAL HAZARD MITIGATION AGENCY INVENTORY WORKSHEETS

City of Temecula
10-19-2011

TABLE OF CONTENTS

Introduction: These documents are meant to be discussed, used and reviewed by a multi-disciplinary team. The Participation by a wide range of stakeholders who play a role in identifying and implementing mitigation actions is required.

SPECIAL CONCERNS:

1. *Has the completed Letter of Commitment been returned to OES? OES must forward this completed Letter of Commitment to Cal EMA.*
2. *Has the completed Letter of Participation been returned to OES?*

Following page 19 is the attached crosswalk for your reference. This is the document Cal EMA and FEMA will be using to verify that all of the required information is in the submitted document. Please refer to the document for information. OES will be placing the page numbers in the crosswalk.

1. LOCAL JURISDICTION CONTACT INFORMATION

The information on this page identifies:

- Jurisdiction and the contact person
- Jurisdiction's service area size and population
- EOP Plan and a Safety Element of their General Plan

PLEASE PROVIDE THE FOLLOWING INFORMATION:

Agency/Jurisdiction:		Temecula		
Type Agency/Jurisdiction:		City		
Contact Person:	Title:	Deputy City Manager		
First Name:	Grant	Last Name:	Yates	
Agency Address:	Street:	41000 Main Street		
	City:	Temecula		
	State:	CA		
	Zip:	92590		
Contact Phone	951-506-5100		FAX	951-694-6499
E-mail	Grant.yates@cityoftemecula.org			

Population Served	101,000
Square Miles Served	30.15

Does your organization have a general plan?	YES
Does your organization have a safety component to the general plan?	YES
What year was your plan last updated?	

Does your organization have a disaster/emergency operations plan?	YES
What year was your plan last updated?	2006
Do you have a recovery annex or section in your plan?	YES
Do you have a terrorism/WMD annex or section in your plan?	YES

2. Hazard Identification Questionnaire

The purpose of the questionnaire is to help identify the hazards within your service area. The list was developed from the first round of meetings with the various working groups in the 2005 plan creation, and from the hazards listed in the County's General Plan. Each hazard is discussed in detail in Part I of the 2005 LHMP. The information will be used as the basis for each jurisdiction to evaluate its capabilities, determine its needs, and to assist in developing goals and strategies. The information identifies:

a) What hazards can be identified within or adjacent to the service area of the jurisdiction.
b) Which of those hazards have had reoccurring events
c) What specific hazards and risks are considered by the jurisdiction to be a threat specifically to the jurisdiction? (These locations should be identified by name and location for inclusion in the Specific Hazard Summary Table).
    a. Specific types of facilities owned and operated by the jurisdiction.
    b. Locations damaged from prior disasters or hazard causing events.
d) Information about the jurisdiction's EOC

(Relates to Number 5 in the 2012 Annex: Jurisdiction Template)

With your Multi-Disciplinary Planning Team:

a. Instructions for Updating Jurisdictions, with your planning team: Review your old Questionnaire for accuracy and relevance, mark changes.

b. Instructions for New Jurisdictions and Special Districts, with your planning team, meet and go over the questionnaire. Fill in YES, NO or NA on the Questionnaire.

HAZARD IDENTIFICATION QUESTIONNAIRE	
DOES YOUR ORGANIZATION HAVE:	
AIRPORT IN JURISDICTION	NO
AIRPORT NEXT TO JURISDICTION	YES
DAIRY INDUSTRY	NO
POULTRY INDUSTRY	NO
CROPS/ORCHARDS	NO
DAMS IN JURISDICTION	NO
DAMS NEXT TO JURISDICTION	YES
LAKE/RESERVOIR IN JURISDICTION	NO
LAKE/RESERVOIR NEAR JURISDICTION	YES
JURISDICTION IN FLOOD PLAIN	YES
CONTROLLED FLOOD CONTROL CHANNEL	YES
UNCONTROLLED FLOOD CONTROL CHANNEL	YES
EARTHQUAKE FAULTS IN JURISDICTION	YES
EARTHQUAKE FAULTS NEXT TO JURISDICTION	YES
MOBILE HOME PARKS	YES
NON-REINFORCED FREEWAY BRIDGES	NO
NON-REINFORCED BRIDGES	NO
BRIDGES IN FLOOD PLAIN	YES
BRIDGES OVER OR ACROSS RIVER/STREAM	YES
ROADWAY CROSSING RIVER/STREAM	YES
NON REINFORCED BUILDINGS	YES
FREEWAY/MAJOR HIGHWAY IN JURISDICTION	YES
FREEWAY/MAJOR HIGHWAY NEXT TO JURISDICTION	YES
FOREST AREA IN JURISDICTION	NO
FOREST AREA NEXT TO JURISDICTION	YES
WITHIN THE 50 MILES SAN ONOFRE EVACUATION ZONE	YES
MAJOR GAS/OIL PIPELINES IN JURISDICTION	YES
MAJOR GAS/OIL PIPELINES NEXT TO JURISDICTION	YES
RAILROAD TRACKS IN JURISDICTION	NO
RAILROAD TRACKS NEXT TO JURISDICTION	NO
HAZARDOUS WASTE FACILITIES IN JURISDICTION	NO
HAZARDOUS WASTE FACILITIES NEXT TO JURISDICTION	NO
HAZARDOUS STORAGE FACILITIES IN JURISDICTION	YES
HAZARDOUS STORAGE FACILITIES NEXT TO JURISDICTION	NO
DOES YOUR ORGANIZATION OWN OR OPERATE A FACILITY	
IN A FLOOD PLAIN	NO
NEAR FLOOD PLAIN	YES
NEAR RAILROAD TRACKS	NO
NEAR A DAM	NO
UPSTREAM FROM A DAM	NO
DOWNSTREAM FROM A DAM	YES
DOWNSTREAM OF A LAKE	YES
DOWNSTREAM FROM A RESERVOIR	YES
NEAR A CONTROLLED FLOOD CONTROL CHANNEL	YES
NEAR UNCONTROLLED FLOOD CONTROL CHANNEL	NO
ON AN EARTHQUAKE FAULT	YES
NEAR AN EARTHQUAKE FAULT	YES
WITHIN THE 50 MILE SAN ONOFRE EVACUATION ZONE	YES
IN A FOREST AREA	NO

NEAR A FOREST AREA	YES
NEAR A MAJOR HIGHWAY	YES
A HAZARDOUS WASTE FACILITY	NO
NEAR A HAZARDOUS WASTE FACILITY	NO
A HAZARDOUS STORAGE FACILITY	YES
NEAR A HAZARDOUS STORAGE FACILITY	NO
NON REINFORCED BUILDINGS	NO
A MAJOR GAS/OIL PIPELINE	NO
NEAR A MAJOR GAS/OIL PIPELINE	YES
DOES YOUR ORGANIZATION HAVE ANY LOCATIONS THAT:	
HAVE BEEN DAMAGED BY EARTHQUAKE AND NOT REPAIRED	NO
HAVE BEEN DAMAGED BY FLOOD	YES
HAVE BEEN DAMAGED BY FLOOD MORE THAN ONCE	YES
HAVE BEEN DAMAGED BY FOREST FIRE	NO
HAVE BEEN DAMAGED BY FOREST FIRE MORE THAN ONCE	NO
HAVE BEEN IMPACTED BY A TRANSPORTATION ACCIDENT	NO
HAVE BEEN IMPACTED BY A PIPELINE EVENT	NO
EMERGENCY OPERATIONS INFORMATION	
DOES YOUR ORGANIZATION HAVE AN EOC	YES
IS YOUR EOC LOCATED IN A FLOOD PLAIN	NO
NEAR FLOOD PLAIN	YES
NEAR RAILROAD TRACKS	NO
NEAR A DAM	NO
UPSTREAM FROM A DAM	NO
DOWNSTREAM FROM A DAM	NO
DOWNSTREAM OF A LAKE	NO
DOWNSTREAM FROM A RESERVOIR	NO
NEAR A CONTROLLED FLOOD CONTROL CHANNEL	NO
NEAR UNCONTROLLED FLOOD CONTROL CHANNEL	NO
ON AN EARTHQUAKE FAULT	NO
NEAR AN EARTHQUAKE FAULT	NO
WITHIN THE 50 MILE SAN ONOFRE EVACUATION ZONE	YES
IN A FOREST AREA	NO
NEAR A FOREST AREA	NO
NEAR A MAJOR HIGHWAY	NO
A HAZARDOUS WASTE FACILITY	NO
NEAR A HAZARDOUS WASTE FACILITY	YES
A HAZARDOUS STORAGE FACILITY	NO
NEAR A HAZARDOUS STORAGE FACILITY	NO
NON REINFORCED BUILDINGS	NO
A MAJOR GAS/OIL PIPELINE	YES
NEAR A MAJOR GAS/OIL PIPELINE	NO
OTHER FACILITY INFORMATION ARE THERE LOCATIONS WITHIN YOUR JURISDICTION THAT:	
COULD BE CONSIDERED A TERRORIST TARGET	YES
COULD BE CONSIDERED A BIO-HAZARD RISK	YES

3. SPECIFIC HAZARDS SUMMARY

This table helps to identify the information (name, owner, location, etc.) about the specific hazards identified in the Hazard Questionnaire.

In the Summary Table, list the basic information of the hazards identified by the jurisdiction in the Hazard Identification Questionnaire as a potential threat. These specific hazards were used in the development of response plans, maps, and other analysis data.

a. Instructions for Updating Jurisdictions and Special Districts: With your planning team, review the "Yes" answers and see if there were any changes, if so summarize why there is a difference from the 2005.

NO CHANGES

b. Instructions for New Jurisdictions and Special Districts: With your planning team, review the "Yes" answers and discuss. Use the information as a group to summarize your jurisdiction's hazards and vulnerabilities.

SPECIFIC HAZARDS SUMMARY

Jurisdiction	Hazard Type	Hazard Name	In Jurisdiction?	Adjacent to Jurisdiction?
Temecula	Dam	Diamond Valley Reservoir	No	Yes
Temecula	Fault	Earthquake Fault	Yes	Yes
Temecula	Hazmat Manufacturing Facility	International Rectifier	Yes	No

Dam Summary

	Skinner Clearwell	Vail	Robert A. Skinner
River	Off stream	Temecula Creek	Tucalota Creek
Nearest City	Temecula	Temecula	Temecula
Height (feet)	44	152	109
Storage (acre-feet)	410		
Year Built	1991	1949	1973
Drainage Area (sq. miles)	0	306	51
Hazard Type	Significant	High	High

4. JURISDICTION VULNERABILITY WORKSHEET

This table is a listing of the primary hazards identified by the 2005 LHMP working groups. Each jurisdiction was asked to evaluate the potential for an event to occur in their jurisdiction by hazard. They were also asked to evaluate the potential impact of that event by hazard on their jurisdiction. The impact potential was determined based on:

1. Economic loss and recovery
2. Physical loss to structures (residential, commercial, and critical facilities)
3. The loss or damage to the jurisdictions infrastructure
4. Their ability to continue with normal daily governmental activities
5. Their ability to quickly recover from the event and return to normal daily activities
6. The loss of life and potential injuries from the event.

The jurisdictions were asked to rate the potential and severity using a scale of between 0 and 4 (4 being the most severe). The jurisdictions were also asked to rank the listed hazards as they relate to their jurisdiction from 1 to 19 (1 being the highest overall threat to their jurisdiction).

With the assistance of the RCIP Plan and County Departments, Riverside County OES conducted an extensive evaluation of the severity and probability potential for the county as a whole. The hazards were also ranked for the County. Those numbers and rankings
were provided to the jurisdictions as a comparison guide.

A separate table was created to address the hazards relating to agriculture and was assessed by the agriculture working group. This table can be found in the Agriculture Appendix of Part I of the 2005 Plan.

a. Instructions for Updating Jurisdictions and Special Districts: Please review the table, determine if your ranking from the 2005 LHMP remains the same, and note that Pandemic has been added to the list. Please discuss and document new or unchanged severity and rankings.

b. Instructions for New Jurisdictions and Special Districts: Please evaluate the potential for an event to occur in your jurisdiction by hazard. Then, evaluate the potential impact of that event by hazard on your jurisdiction according to #1-6 from the potential impact list above.

NOTE: Under Medical, Pandemic was added. This was a result of the H1N1 and other incidents.

NAME: Grant Yates, Deputy City Manager AGENCY: City of Temecula DATE : August 2012

	COUNTY		LOCAL JURISDICTION		
HAZARD	**SEVERITY 0 - 4**	**PROBABILITY 0 - 4**	**SEVERITY 0 - 4**	**PROBABILITY 0 - 4**	**RANKING 1 - 19**
EARTHQUAKE	4	3	**4**	**3**	**2**
WILDLAND FIRE	3	4	**3**	**3**	**5**
FLOOD	3	3	**4**	**3**	**3**
OTHER NATURAL HAZARDS					
DROUGHT	3	3	**3**	**2**	**11**
LANDSLIDES	2	3	**2**	**2**	**14**
INSECT INFESTATION	3	4	**2**	**2**	**17**
EXTREME SUMMER/WINTER WEATHER	2	4	**2**	**3**	**8**
SEVERE WIND EVENT	3	3	**3**	**2**	**9**
AGRICULTURAL					
DISEASE/CONTAMINATION	3	4	**0**	**0**	**18**
TERRORISM	4	2	**0**	**0**	**19**
OTHER MAN-MADE					
PIPELINE	2	3	**2**	**2**	**12**
AQUEDUCT	2	3	**2**	**2**	**13**
TRANSPORTATION	2	4	**3**	**4**	**1**
POWER OUTAGE	3	4	**3**	**3**	**7**
HAZMAT ACCIDENTS	3	3	**3**	**3**	**6**
NUCLEAR ACCIDENT	4	2	**2**	**2**	**10**
TERRORISM	4	2	**2**	**2**	**4**
CIVIL UNREST	2	2	**2**	**2**	**15**
JAIL/PRISON EVENT	1	2	**1**	**1**	**16**
MEDICAL					
PANDEMIC			2	2	10

5. JURISDICTION MITIGATION STRATEGIES AND GOALS

This comprehensive table is a listing of the various mitigation strategies, goals, and objectives developed by the 2005 LHMP working groups. The jurisdictions were also given the opportunity to list additional strategies, goals, and objectives specific to either their jurisdiction or their workgroup (i.e. the hospitals, agriculture, etc.).

LOCAL JURISDICTION MITIGATION STRATEGIES AND GOALS

With your Planning Team

a. Instructions for Updating Jurisdictions and Special Districts: please review the table; determine if your ranking from the 2005 LHMP remains the same.

b. Instructions for New Jurisdictions and Special Districts: please follow below:

Please evaluate the priority level for each listed mitigation goal identified below as it relates to your jurisdiction or facility. If you have any additional mitigation goals or recommendations, please list them at the end of this document.

Place an H (High), M (Medium), L (Low), or N/A (Not Applicable) for your priority level for each mitigation goal in the box next to the activity.

EARTHQUAKE	
H	Aggressive public education campaign in light of predictions
M	Generate new literature for dissemination to:
M	◊ Government employees
M	◊ Businesses
M	◊ Hotel/motel literature
M	◊ Local radio stations for education
H	◊ Public education via utilities
L	◊ Identify/create television documentary content
H	Improve the Emergency Alert System (EAS)
H	◊ Consider integration with radio notification systems
M	◊ Upgrade alerting and warning systems for hearing impaired
M	◊ Training and maintenance
H	Procure earthquake-warning devices for critical facilities
M	Reinforce emergency response facilities
H	Provide training to hospital staffs
L	Require earthquake gas shutoffs on remodels/new construction
M	Evaluate re-enforcing reservoir concrete bases
M	Evaluate EOCs for seismic stability
H	Install earthquake cutoffs at reservoirs
M	Install earthquake-warning devices at critical facilities
H	Develop a dam inundation plan for new Diamond Valley Reservoir
H	Earthquake retrofitting
H	◊ Bridges/dams/pipelines
M	◊ Government buildings/schools
M	◊ Mobile home parks
H	Develop educational materials on structural reinforcement and home inspections **(ALREADY DEVELOPED)**
H	Ensure Uniform Building Code compliance
H	◊ Update to current compliance when retrofitting
M	Insurance coverage on public facilities
M	Funding for non-structural abatement (Earthquake kits, etc.)
L	Pre - identify empty commercial space for seismic re-location
L	Electrical co-generation facilities need retrofitting/reinforcement (Palm Springs, others?)
H	Mapping of liquefaction zones
H	Incorporate County geologist data into planning
M	Backup water supplies for hospitals
H	Evaluate pipeline seismic resiliency
M	Pre-positioning of temporary response structures
H	Fire sprinkler ordinance for all structures
M	Evaluate adequacy of reservoir capacity for sprinkler systems
H	Training/standardization for contractors performing retrofitting

H	Website with mitigation/contractor/retrofitting information
H	◊ Links to jurisdictions
H	◊ Alerting information
H	◊ Volunteer information
M	Evaluate depths of aquifers/wells for adequacy during quakes
H	Evaluate hazmat storage regulations near faults
	COMMUNICATIONS IN DISASTER ISSUES
H	Communications Interoperability
H	Harden repeater sites
H	Continue existing interoperability project
H	Strengthen/harden
L	Relocate
H	Redundancy
M	Mobile repeaters
	FLOODS
H	Update development policies for flood plains
H	Public education on locations of flood plains
H	Develop multi-jurisdictional working group on floodplain management
H	Develop greenbelt requirements in new developments
H	Update weather pattern/flood plain maps
M	Conduct countywide study of flood barriers/channels/gates/water dispersal systems
H	Required water flow/runoff plans for new development
H	Perform GIS mapping of flood channels, etc.
M	Install vehicular crossing gates/physical barriers for road closure
H	Maintenance of storm sewers/flood channels
H	Create map of flood channels/diversions/water systems etc.
M	Require digital floor plans on new non-residential construction
M	Upgrade dirt embankments to concrete
M	Conduct countywide needs study on drainage capabilities
M	Increase number of pumping stations
M	Increase sandbag distribution capacities
H	Develop pre-planned response plan for floods
H	◊ Evacuation documentation
H	◊ Re-examine historical flooding data for potential street re-design
M	Training for city/county PIOs about flood issues
M	Warning systems - ensure accurate information provided
H	◊ Publicize flood plain information (website?)
M	◊ Install warning/water level signage
H	◊ Enhanced public information
M	◊ Road closure compliance
M	◊ Shelter locations

H	◊ Pre-event communications
M	Look at County requirements for neighborhood access
M	◊ Secondary means of ingress/egress
H	Vegetation restoration programs
H	Ensure critical facilities are hardened/backed up
M	Hardening water towers
M	Terrorism Surveillance - cameras at reservoirs/dams
M	Riverbed maintenance
M	Evaluate existing lift stations for adequacy
M	Acquisition of property for on-site retention
M	Evaluate regulations on roof drainage mechanism
M	Erosion-resistant plants
H	Traffic light protection
M	Upkeep of diversionary devices
M	Install more turn-off valves on pipelines
M	Backup generation facilities
M	Identify swift water rescue capabilities across County
WILDFIRES	
H	Aggressive weed abatement program
M	◊ Networking of agencies for weed abatement
H	Develop strategic plan for forest management
H	Public education on wildfire defense
H	Encourage citizen surveillance and reporting
H	Identify hydrants with equipment ownership information
H	Enhanced firefighting equipment
M	Fire spotter program/red flag program
M	◊ Expand to other utilities
M	Research on insect/pest mitigation technologies
M	Volunteer home inspection program
H	Public education program
H	◊ Weather reporting/alerting
H	◊ Building protection
M	◊ Respiration
H	Pre-identify shelters/recovery centers/other resources
H	Roofing materials/defensive spacing regulations
H	Community task forces for planning and education
H	Fuel/dead tree removal
M	Strategic pre-placement of firefighting equipment
M	Establish FEMA coordination processes based on ICS
H	Brush clearings around repeaters
M	Research new technologies for identifying/tracking fires

H	Procure/deploy backup communications equipment
M	"Red Tag" homes in advance of event
H	Provide fire-resistant gel to homeowners
M	Involve insurance agencies in mitigation programs
M	Clear out abandoned vehicles from oases
H	Code enforcement
H	Codes prohibiting fireworks
H	Fuel modification/removal
H	Evaluate building codes
M	Maintaining catch basins
OTHER HAZARDS	
M	Improve pipeline maintenance
M	Wetlands mosquito mitigation (West Nile Virus)
M	Insect control study
M	Increase County Vector Control capacities
M	General public drought awareness
M	◊ Lawn watering rotation
M	Develop County drought plan
M	Mitigation of landslide-prone areas
M	Develop winter storm sheltering plan
L	Ease permitting process for building transmission lines
M	Evaluate restrictions on dust/dirt/generating activities during wind seasons
L	Rotational crop planning/soil stabilization
L	Enhance agricultural checkpoint enforcement
L	Agriculture - funding of detection programs
L	Communications of pipeline maps (based on need to know)
L	Improved notification plan on runaway trains
M	Improve/maintain blackout notification plan.
M	Support business continuity planning for utility outages
H	Terrorism training/equipment for first responders
H	◊ Terrorism planning/coordination
M	◊ Staffing for terrorism mitigation
H	Create a SONGS regional planning group
M	◊ Include dirty bomb planning
M	Cooling stations - MOUs in place
L	Fire Ant eradication program
L	White Fly infestation abatement/eradication program
M	Develop plan for supplemental water sources
M	Public education on low water landscaping
L	Salton Sea desalinization
L	Establish agriculture security standards (focus on water supply)

M	ID mutual aid agreements
L	Vulnerability assessment on fiber-optic cable
H	Upgrade valves on California aqueduct
H	Public education
H	◊ Bi-lingual signs
M	◊ Power Outage information
M	Notification system for rail traffic - container contents
H	Control and release of terrorism intelligence
M	Develop prison evacuation plan (shelter in place?)

Use the list and rankings to narrow down or identify "your" strategies. The mitigation strategy serves as the long-term blueprint for reducing the potential losses identified in the risk assessment. The mitigation strategy includes the development of goals, objectives, and prioritized mitigation actions.

Goals are general guidelines that explain what you want to achieve. They are broad policy statements and are usually long-term and represent global visions, such as "Protect Existing Property."

Objectives define strategies or implementation steps to attain the identified goals. Unlike goals, objectives are specific, measurable, and may have a defined completion date. Objectives are more specific, such as "Increase the number of buildings protected from flooding."

The development of effective goals and objectives enables the planning team to evaluate the merits of alternative mitigation actions and the local conditions in which these activities would be pursued. A potential mitigation action that would support the goal and objective goal example above is "Acquire repetitive flood loss properties in the Acadia Woods Subdivision."

In the 2005 LHMP, each jurisdiction was required to develop a Mitigation Strategy Proposal based on one of the following:

1. The strategy, goal, or objective rating "High Priority" on the Local Jurisdiction Mitigation
   Strategies and Goals (WORKSHEET ABOVE)
2. A specifically identified strategy, goal, or objective that was developed as part of one of the working groups planning sessions such as the hospitals or agriculture
3. A specifically identified strategy, goal, or objective that was developed as part of one of the jurisdiction's internal working group planning sessions

6. LOCAL JURISDICTION PROPOSED MITIGATION ACTION AND STRATEGY PROPOSAL

a. Instructions for Updating Jurisdictions and Special Districts: With your planning team, please review the table from # 5, and determine if your ranking from the 2005 LHMP remains the same.

Review the chosen Mitigation Strategy that your jurisdiction submitted. The updated plan **must** identify the completed, deleted, or deferred actions or activities from the previously approved plan as a benchmark for progress.

If the mitigation actions or activities remain unchanged from the previously approved plan, the updated plan **must** indicate why changes are not necessary. Further, the updated plan **shall** include in its prioritization any new mitigation actions identified since the previous plan was approved or through the plan update process.

b. Instructions for New Jurisdictions and Special Districts: With your planning team, Use the "High Priority" rated strategy, goal or objective as a starting point to determine your Mitigation Strategy Proposal.

LOCAL JURISDICTION PROPOSED MITIGATION ACTION AND STRATEGY PROPOSAL

Jurisdiction: City of Temecula
Contact: Grant Yates
Phone: 951-506-5100

MITIGATION STRATEGY INFORMATION

Proposal Name:

Dam inundation plan for Diamond Valley Reservoir

Proposal Location:

Diamond Valley Lake

Proposal Type

Place an "X" by the type of mitigation strategy (one or more may apply)

X	Flood and mud flow mitigation
	Fire mitigation
	Elevation or acquisition of repetitively damaged structures or structures in high hazard areas
X	Mitigation Planning (i.e. update building codes, planning develop guidelines, etc.)
	Development and implementation of mitigation education programs
	Development or improvement of warning systems
	Additional Hazard identification and analysis in support of the local hazard mitigation plan
	Drinking and/or irrigation water mitigation
	Earthquake mitigation
	Agriculture - crop related mitigation
	Agriculture - animal related mitigation
X	Flood inundation/Dam failure
	Weather/Temperature event mitigation

DESCRIPTION OF THE PROPOSED MITIGATION STRATEGY

	List any previous disaster related events (dates, costs, etc.)
Proposal/Event History	Diamond Valley Reservior is the largest and newest lake in the County and planning for the possibility of a dam failure is important to the City of Temecula, which lies in the probable areas of concern. Currently the State of California has not reviewed the flood inundation maps from the Metropolitan Water District

	Give a detailed description of the need for the proposal, any history related to the proposal. List the activities necessary for its completion in the narrative section below, including estimated timeline. (how long will it take)
Description of Mitigation Goal Narrative:	To our knowledge, there are dam innundation maps for Lake Skinner and Vail Lake, which could also negatively impact the City of Temecula. Planning for the worst case scenario, an innundation map of Diamond Valley could become an invaluable tool for the City of Temecula. Initial maps from MWD and the County GIS Agency have shown that the water flow from Diamond Valley Dam will have a major impact on the City and its surrounding area. The goal of this mitigation project will be to have planning sessions and table top exercises with all of the involved agencies to develop response plans relating to a dam failure. Table top exercises with involved agencies were held and work is started to develop response plans. These plans will be updated once the State of California reviews and approves the MWD maps.

Does your jurisdiction have primary responsibility for the proposal? If not, what agency does?

Yes	X	No	X	Responsible Agency: Additional partners could include Riverside County, County Flood Control, and the Cities of Hemet and Murrietta.

FUNDING INFORMATION

Place an "X" by the proposed source of funding for this proposal

X	Unfunded proposal - funds are not available for the proposal at this time
	Local jurisdiction General Fund
	Local jurisdiction Special Fund (road tax, assessment fees, etc.)
	Non-FEMA Hazard Mitigation Funds
	Local Hazard Mitigation Grant Funds - Future Request
	Hazard Mitigation Funds

X Has your jurisdiction evaluated this mitigation strategy to determine its cost benefits?
(i.e. has the cost of the mitigation proposal been determined to be beneficial in relationship to the potential damage or loss using the attached Cost/Benefit Analysis Sheet or another internal method)

As part of this process, each Submitting Jurisdiction is required to perform a cost-benefit analysis. They were required to answer the question at the bottom of the Proposal page that asks if they had conducted a Cost-Benefit Analysis of some type. This analysis was conducted either by completing a Cost Benefit form or by some other approved method. Many of the jurisdictions used the cost-effective analysis approach outlined in the FEMA publication, *Cost and Benefits of Natural Hazards Mitigation.* This cost-benefit analysis was not restricted to natural hazards.

In some cases, the jurisdiction or working group identified a proposal that highlighted a life-safety issue over a standard hazard proposal. This was done when there was either historical data or other sources of information indicating that the life-safety issue needed to be emphasized or brought to the public's attention.

7. LOCAL JURISDICTION DEVELOPMENT TRENDS QUESTIONNAIRE LAND USE ISSUES - COMPLETE THE INFORMATION BELOW

This questionnaire identifies a comparison of specific land use issues between 2004, 2012 and 2017. The questionnaire also identifies the specific threat potential to the jurisdiction in relationship to residential and commercial structures along with critical facilities. This threat potential is focused on structural loss rather than dollar-value loss as it relates to the three main natural hazards – earthquakes, floods, and wild land fires. The determination of dollar-value loss relating to commercial and critical facilities was found to be very limited and a difficult task to establish. This issue will be addressed in future updates of the Plan. The questionnaire also requires the jurisdiction to identify the process it will use to maintain their portion of the Plan.

LOCAL JURISDICTION DEVELOPMENT TRENDS QUESTIONNAIRE 2011

LAND USE ISSUES - COMPLETE THE INFORMATION BELOW

JURISDICTION:	**DOES YOUR AGENCY HAVE RESPONSIBILITY FOR LAND USE AND/OR DEVELOPMENT ISSUES WITHIN YOUR JURISDICTIONAL BOUNDARIES? YES NO**			
	2005 DATA	**2012 DATA**		**2017**
Current Population in Jurisdiction or Served	102,000	101,00	Projected Population in Jurisdiction or Served - in 2017	108,00
Current Sq Miles in Jurisdiction or Served	28.1	30.15	Projected Sq Miles in Jurisdiction or Served - in 2017	32.0
Does Your Jurisdiction have any ordinances or regulations dealing with disaster mitigation, disaster preparation, or disaster response?	Yes	Yes	If yes, please list ordinance or regulation number.	
What is the number one land issue your agency will face in the next five years	Growth from unincorporated areas			
Approximate Number of Homes/Apts/etc.	29,000	31,000	Projected Number of Homes/Apts/etc.- in 2017	35,000
Approximate Total Residential Value	8.5 Billion	8.5 Billion	Projected Residential Total Value - in 2017	15 Billion
Approximate Number of Commercial Businesses	3,000	3,300	Projected Number of Commercial Businesses - in 2017	3,700
Approximate Percentage of Homes/Apts/etc in flood hazard zones	>1% $85,000,000	>1% $85,000,000	Approximate Percentage of Homes/Apts/etc in flood hazard zones - in 2017	>1% $150,000,000
Approximate Percentage of Homes/Apts/etc in earthquake hazard zones	>1% $85,000,000	>1% $85,000,000	Approximate Percentage of Homes/Apts/etc in earthquake hazard zones - in 2017	>1% $150,000,000
Approximate Percentage of Homes/Apts/etc in wildland fire hazard zones	>1% $85,000,000	>1% $85,000,000	Approximate Percentage of Homes/Apts/etc in wildland fire hazard zones - in 2017	>1% $150,000,000
Approximate Percentage of Commercial Businesses in flood hazard zones	>1%	>1%	Approximate Percentage of Commercial Businesses in flood hazard zones - in 2017	>1%
Approximate Percentage of Commercial Businesses in earthquake hazard zones	20%	20%	Approximate Percentage of Commercial Businesses in earthquake hazard zones - in 2017	20%
Approximate Percentage of Commercial Businesses in wildland fire hazard zones	0%	0%	Approximate Percentage of Commercial Businesses in wildland fire hazard zones - in 2017	0
Number of Critical Facilities in your Jurisdiction that are in flood hazard zones	See Above	0	Projected Number of Critical Facilities in your Jurisdiction that are in flood hazard zones - in 2017	0
Number of Critical Facilities in your Jurisdiction that are in earthquake hazard zones	See Above	0	Number of Critical Facilities in your Jurisdiction that are in earthquake hazard zones - in 2017	0
Number of Critical Facilities in your Jurisdiction that are in wildland fire hazard zones.	See Above	0	Number of Critical Facilities in your Jurisdiction that are in wildland fire hazard zones - in 2017	0
Does your jurisdiction plan on participating in the County's on-going plan maintenance program every two years as described in Part I of the plan?	Yes	Yes	If not, how will your jurisdiction do plan maintenance?	
Will a copy of this plan be available for the various planning groups within your jurisdiction for use in future planning and budgeting purposes?				Yes

APPENDIX B – PLAN REVIEW TOOL/CROSSWALK